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What is claimed is:

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1.	Δ	method	com	nric	uno
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basing a discrete frequency transformation on the number of subcarriers in a predetermined set of subcarriers, one or more subcarriers of the set assigned to modulate data and the remaining subcarriers of the set not assigned to modulate the data;

performing the discrete frequency transformation on the data to modulate the data; and

excluding from the transformation mathematical operations associated with the subcarriers not assigned to modulate the data.

- 2. The method of claim 1, wherein the excluding comprises: excluding all of the subcarriers not assigned to modulate the data.
- 3. The method of claim 1, wherein the performing the discrete frequency transformation comprises:

performing orthogonal frequency division multiplexing modulation on the data.

- 4. The method of claim 1, wherein the performing comprises: applying a weighting function during the discrete frequency transformation to perform symbol shaping.
- 5. The method of claim 1, wherein said one or more subcarriers are assigned to at least one of a user, an electrical device and a terminal.
- 6. The method of claim 1, further comprising: using the modulated data to form an orthogonal frequency division multiplexing symbol.

1		7.	The method of claim 1, further comprising:								
2		using	the transformation to generate symbols at a rate defined by a symbol generation								
3	interva	al;									
4		basing	g the discrete frequency transformation on the symbol generation interval; and								
5		using	the discrete frequency transformation to generate discrete modulated values for								
6	an inte	erval th	at exceeds the symbol generation interval to generate a cyclic extension.								
1		8.	The method of claim 7, further comprising:								
2		transmitting each of the symbols during one of the intervals that exceeds the sym									
3	genera	ration interval.									
1		9.	The method of claim 1, further comprising:								
			ively pre-rotating phases of said one or more subcarriers to generate a cyclic								
3.TT	prefix.		rvery pro rotating phases of said one of more subcarriers to generate a cyclic								
3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ргопи	•									
1		10.	The method of claim 1, wherein the mathematical operations comprise at least								
	one of	an acc	rumulate operation and a multiplication operation.								
2		11.	A system comprising:								
2		a devi	ice to generate data to be modulated; and								
3		a tran	smitter to:								
4			base a discrete frequency transformation on the number of subcarriers in a								
5	predet	ermine	d set of subcarriers, one or more subcarriers of the set of subcarriers assigned to								
6	modul	ate dat	a and the remaining subcarriers of the set not assigned to modulate the data;								
7			perform the discrete frequency transformation on the data to modulate the								
8	data; a	ınd									
9			exclude from the transformation mathematical operations associated with the								
10	subcar	riers n	ot assigned to modulate the data.								
1		12.	The system of claim 11, wherein the transmitter excludes all of the subcarriers								
2	not ass	signed	to modulate the data.								

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- 13. The system of claim 11, wherein the transmitter performs orthogonal frequency division multiplexing modulation on the data.
- 1 14. The system of claim 11, wherein the transmitter determines components of the discrete frequency transformation independently from each other.
- 1 15. The system of claim 11, wherein said one or more subcarriers are assigned to one of a user, an electrical device and a terminal.
 - 16. The system of claim 11, wherein the transmitter uses the modulated data to form an orthogonal frequency division multiplexing symbol.
 - 17. The system of claim 11, wherein the transmitter:
 uses the transformation to generate symbols at a rate defined by a symbol generation interval;

bases the discrete frequency transformation on the symbol generation interval; and uses the discrete frequency transformation to generate discrete modulated values for an interval that exceeds the symbol generation interval to generate a cyclic extension.

- 18. The system of claim 11, wherein the transmitter transmits each of the symbols during one of the intervals that exceeds the symbol generation interval.
- 19. The system of claim 11, wherein the transmitter selectively pre-rotates phases of said one or more subcarriers to generate a cyclic prefix.
- 20. The system of claim 11, wherein the mathematical operations comprise at least one of an accumulate operation and a multiplication operation.

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21. An article comprising a storage medium readable by a processor-based system, the storage medium storing instructions to cause a processor to:

base a discrete frequency transformation on the number of subcarriers in a predetermined set of subcarriers, one or more subcarriers of the set assigned to modulate data and the remaining subcarriers not assigned to modulate the data;

perform the discrete frequency transformation on the data to modulate the data; and exclude from the transformation mathematical operations associated with the subcarriers not assigned to modulate the data.

- 22. The article of claim 21, the storage medium storing instructions to cause the processor to exclude from the transformation all mathematical operations associated with the subcarriers not assigned to modulate the data.
- 23. The article of claim 21, the storage medium storing instructions to cause the processor to perform orthogonal frequency division multiplexing modulation on the data.
- 24. The article of claim 21, the storage medium storing instructions to cause the processor to determine components of the inverse discrete frequency transformation independently from each other.
- 25. The article of claim 21, wherein said one or more subcarriers are assigned to one of a user, an electrical device and a terminal.
- 26. The article of claim 21, the storage medium storing instructions to cause the processor to use the modulated data to form an orthogonal frequency division multiplexing symbol.

27.	Th	e artic	le of	claim	21,	the st	ora	ge 1	ned	ium	stori	ng ir	ıstru	ctio	ns to	cau	se ti	he
processor to:																		
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use the transformation to generate symbols at a rate defined by a symbol generation interval;

base the discrete frequency transformation on the symbol generation interval; and use the discrete frequency transformation to generate discrete modulated values for an interval that exceeds the symbol generation interval to generate a cyclic extension.

- 28. The article of claim 27, the storage medium storing instructions to cause the processor to:
- transmit each of the symbols during one of the intervals that exceeds the symbol generation interval.
- 29. The article of claim 21, the storage medium storing instructions to cause the processor to:
- selectively pre-rotate phases of said one or more subcarriers to generate a cyclic prefix.
- 30. The article of claim 21, wherein the mathematical operations comprise at least one of an accumulate operation and a multiplication operation.